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PATENT & TRADEMARK OFFICE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of: **KITAKADO, JUN et al.**

Group Art Unit: 2685

Serial No.: **09/911,823**

Examiner: **Edward F. Urban**

Filed: **July 25, 2001**

P.T.O. Confirmation No.: 4866

**FOR: RADIO EQUIPMENT CAPABLE OF REAL TIME CHANGE OF  
ANTENNA DIRECTIVITY AND DOPPLER FREQUENCY ESTIMATING  
CIRCUIT USED FOR THE RADIO EQUIPMENT**

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 CFR 1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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**NOV 07 2003**

November 6, 2003

Sir:

**Technology Center 2600**

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449. One copy of each of these documents is attached.

No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the issuance of a first official action on the merits or expiration of the three month period following the filing date or the entry of the national stage of the above-captioned application.

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents cited in the attached Form PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

The Commissioner is authorized to charge our Deposit Account No. 01-2340 for any fee which is deemed by the Patent and Trademark Office to be required to effect consideration of this statement.

Respectfully submitted,

ARMSTRONG, KRATZ, QUINTOS,  
HANSON & BROOKS, LLP



William G. Kratz, Jr.  
Attorney for Applicant  
Reg. No. 22,631

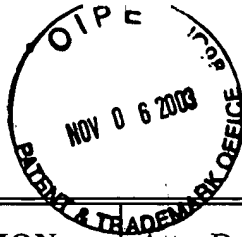
WGK/nrp  
Atty. Docket No. **010901**  
Suite 1000  
1725 K Street, N.W.  
Washington, D.C. 20006  
(202) 659-2930



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Enclosures: European Search Report  
PTO-1449  
References (4)



|   |   |                             |
|---|---|-----------------------------|
| <b>INFORMATION<br/>DISCLOSURE<br/>CITATION<br/>PTO-1449</b> | Atty. Docket No. 010901                   | Serial No. 09/911,823       |
|   | Applicant(s): <b>KITAKADO, JUN et al.</b> |                             |
|   | Filing Date: <b>July 25, 2001</b>         | Group Art Unit: <b>2685</b> |

**U.S. PATENT DOCUMENTS**

| Examiner Initial | Document No. | Name | Date | Class | Subclass | Filing Date (If appropriate) |
|------------------|--------------|------|------|-------|----------|------------------------------|
| _____            | AA           |      |      |       |          |                              |
| _____            | AB           |      |      |       |          |                              |
| _____            | AC           |      |      |       |          |                              |
| _____            | AD           |      |      |       |          |                              |
| _____            | AE           |      |      |       |          |                              |

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**FOREIGN PATENT DOCUMENTS**

| Document No.          | Date     | Country | Translation (Yes or No) |
|-----------------------|----------|---------|-------------------------|
| _____ AF WO 98/18271  | 4/30/98  | WIPO    |                         |
| _____ AG EP 0 756 430 | 1/29/97  | EPO     |                         |
| _____ AH WO 97/00543  | 1/03/97  | WIPO    |                         |
| _____ AI EP 0 869 578 | 10/07/96 | EPO     |                         |
| _____ AJ              |          |         |                         |

**OTHER DOCUMENTS**

|       |    |  |
|-------|----|--|
| _____ | AK |  |
| _____ | AL |  |

|          |                 |
|----------|-----------------|
| Examiner | Date Considered |
|----------|-----------------|